

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) An electronic device functioning as a telephone, comprising: a display portion; an audio input portion; an audio output portion; and operation keys;  
wherein:

the display portion ~~has active elements~~ comprises at least one gate signal line, at least one source signal line crossing the at least one gate signal line, and at least one active element electrically connected to the at least one gate signal line and the at least one source signal line;

the operation keys have LEDs; and

the direction of an image displayed by the LEDs is switchable between a first orientation and a second orientation.

2. (Original) An electronic device according to claim 1, wherein the active element has EL or liquid crystals.

3. (Withdrawn) An electronic device functioning as a telephone, comprising: a display portion; an audio input portion; an audio output portion; and operation keys;  
wherein:

the display portion has EL elements;

the operation keys have liquid crystals; and

the direction of an image displayed by the liquid crystals is switchable.

4. (Withdrawn) An electronic device functioning as a telephone, comprising:  
a first panel having: one of an audio input portion and an audio output portion; and a display portion;

a second panel having: one of an audio input portion and an audio output portion; and operation keys;

wherein:

the first panel and the second panel are connected;

the angle between the first panel and the second panel can be arbitrarily changed;

the display portion has EL elements;

the operation keys have LEDs; and

the direction of an image displayed by the LEDs is switchable.

5. (Withdrawn) An electronic device functioning as a telephone, comprising:  
a first panel having: one of an audio input portion and an audio output portion; and a display portion;

a second panel having: one of an audio input portion and an audio output portion; and operation keys;

wherein:

the first panel and the second panel are connected;

the angle between the first panel and the second panel can be arbitrarily changed;

the display portion has EL elements;

the operation keys have liquid crystals; and

the direction of an image displayed by the liquid crystals is switchable.

6. (Withdrawn) An electronic device functioning as a telephone, comprising:  
a first panel having: one of an audio input portion and an audio output portion; and a display portion;

a second panel having: one of an audio input portion and an audio output portion; and operation keys;

wherein:

the display portion has EL elements;

the operation keys have LEDs;

the first panel and the second panel are connected;

the angle between the first panel and the second panel can be arbitrarily changed;

the direction of an image displayed by the LEDs is switchable in accordance with the angle between the first panel and the second panel.

7. (Withdrawn) An electronic device functioning as a telephone, comprising:

a first panel having: one of an audio input portion and an audio output portion; and a display portion;

a second panel having: one of an audio input portion and an audio output portion; and operation keys;

wherein:

the display portion has EL elements;

the operation keys have liquid crystals;

the first panel and the second panel are connected;

the angle between the first panel and the second panel can be arbitrarily changed;

the direction of an image displayed by the liquid crystals is switchable in accordance with the angle between the first panel and the second panel.

8. (Withdrawn) An electronic device functioning as a telephone, comprising:

a first panel having: one of an audio input portion and an audio output portion; and a display portion;

a second panel having: one of an audio input portion and an audio output portion; and operation keys;

wherein:

the first panel and the second panel are connected;

the angle between the first panel and the second panel can be arbitrarily changed;

the display portion has a plurality of pixels;

the plurality of pixels each have: a photodiode; an EL element; a switching TFT; an EL driver TFT; a reset TFT; a buffer TFT; and a selection TFT;

the switching TFT and the EL driver TFT control light emission from the EL element;

light emitted from the EL elements is reflected upon a subject and irradiated onto the photodiodes;

the photodiodes, the reset TFTs, the buffer TFTs, and the selection TFTs generate an image signal from the light irradiated onto the photodiodes;

the operation keys have LEDs; and

the direction of an image displayed by the LEDs is switchable.

9. (Withdrawn) An electronic device functioning as a telephone, comprising:

a first panel having: one of an audio input portion and an audio output portion; and a display portion;

a second panel having: one of an audio input portion and an audio output portion; and operation keys;

wherein:

the first panel and the second panel are connected;

the angle between the first panel and the second panel can be arbitrarily changed;

the display portion has a plurality of pixels;

the plurality of pixels each have: a photodiode; an EL element; a switching TFT; an EL driver TFT; a reset TFT; a buffer TFT; and a selection TFT;

the switching TFT and the EL driver TFT control light emission from the EL element;

light emitted from the EL elements is reflected upon a subject and irradiated onto the photodiodes;

the photodiodes, the reset TFTs, the buffer TFTs, and the selection TFTs generate an image signal from the light irradiated onto the photodiodes;  
the operation keys have liquid crystals; and  
the direction of an image displayed by the liquid crystals is switchable.

10. (Withdrawn) An electronic device according to claim 1, wherein:  
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

11. (Withdrawn) An electronic device according to any of claim 1, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.

12. (Withdrawn) An electronic device functioning as a telephone, comprising: a display portion; an audio input portion; an audio output portion; and operation keys;  
wherein:  
the display portion have first EL elements;  
the operation keys have second EL element; and  
the direction of an image displayed by the second EL elements is switchable.

13. (Withdrawn) An electronic device functioning as a telephone, comprising:  
a first panel having: one of an audio input portion and an audio output portion; and a display portion;  
a second panel having: one of an audio input portion and an audio output portion; and operation keys;  
wherein:  
the first panel and the second panel are connected;  
the angle between the first panel and the second panel can be arbitrarily changed;

the display portion has first EL elements;  
the operation keys have second EL elements; and  
the direction of an image displayed by second EL elements is switchable.

14. (Withdrawn) An electronic device functioning as a telephone, comprising:  
a first panel having: one of an audio input portion and an audio output portion; and a display portion;  
a second panel having: one of an audio input portion and an audio output portion; and operation keys;  
wherein:  
the display portion has first EL elements;  
the operation keys have second EL elements;  
the first panel and the second panel are connected;  
the angle between the first panel and the second panel can be arbitrarily changed; and  
the direction of an image displayed by second EL elements is switchable in accordance with the angle between the first panel and the second panel.

15. (Withdrawn) An electronic device functioning as a telephone, comprising:  
a first panel having: one of an audio input portion and an audio output portion; and a display portion;  
a second panel having: one of an audio input portion and an audio output portion; and operation keys;  
wherein:  
the first panel and the second panel are connected;  
the angle between the first panel and the second panel can be arbitrarily changed;  
the display portion has a plurality of pixels;  
the plurality of pixels each have: a photodiode; a first EL element; a switching TFT; an EL driver TFT; a reset TFT; a buffer TFT; and a selection TFT;

the switching TFT and the EL driver TFT control light emission from the first EL element;

light emitted from the first EL elements is reflected upon a subject and irradiated onto the photodiodes;

the photodiodes, the reset TFTs, the buffer TFTs, and the selection TFTs generate an image signal from the light irradiated onto the photodiodes;

the operation keys have second EL elements; and

the direction of an image displayed by the second EL elements is switchable.

16. (Withdrawn) An electronic device according to claim 12, wherein:

the first EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.

17. (Withdrawn) An electronic device according to claim 12, wherein the strength of light

emitted by the first EL elements is equal to or greater than 251 m/W.

18. (Withdrawn) An electronic device according to claim 12, wherein:

the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.

19. (Withdrawn) An electronic device according to claim 12, wherein the maximum

value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.

20. (Withdrawn) An electronic device according to claim 1, wherein the electronic device

has a CCD light receiving portion.

21. (Withdrawn) An electronic device according to claim 20, wherein an image is taken in as electronic data in the CCD light receiving portion.

22. (Withdrawn) An electronic device according to claim 1, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

23. (Withdrawn) An electronic device functioning as a telephone, comprising:  
a first panel having: one of an audio input portion and an audio output portion; and a display portion;  
a second panel having: one of an audio input portion and an audio output portion; and operation keys;  
wherein:  
the first panel and the second panel are connected;  
the angle between the first panel and the second panel can be arbitrarily changed;  
the display portion has EL elements;  
the operation keys have LEDs;  
the direction of an image displayed by the LEDs is switchable; and  
the direction of an image displayed by the EL elements and that of the image displayed by LEDs are the same at all times.

24. (Withdrawn) An electronic device functioning as a telephone, comprising:  
a first panel having: one of an audio input portion and an audio output portion; and a display portion;  
a second panel having: one of an audio input portion and an audio output portion; and operation keys;  
wherein:



the first panel and the second panel are connected;  
the angle between the first panel and the second panel can be arbitrarily changed;  
the display portion has EL elements;  
the operation keys have liquid crystals;  
the direction of an image displayed by the liquid crystals is switchable; and  
the direction of an image displayed by the EL elements and that of the image displayed  
by liquid crystals are the same at all times.

25. (Withdrawn) An electronic device functioning as a telephone, comprising:  
a first panel having: one of an audio input portion and an audio output portion; and a  
display portion;  
a second panel having: one of an audio input portion and an audio output portion; and  
operation keys;  
wherein:  
the display portion has EL elements;  
the operation keys have LEDs;  
the first panel and the second panel are connected;  
the angle between the first panel and the second panel can be arbitrarily changed;  
the direction of an image displayed by the LEDs is switchable in accordance with the  
angle between the first panel and the second panel; and  
the direction of an image displayed by the EL elements and that of the image displayed  
by LEDs are the same at all times.

26. (Withdrawn) An electronic device functioning as a telephone, comprising:  
a first panel having: one of an audio input portion and an audio output portion; and a  
display portion;  
a second panel having: one of an audio input portion and an audio output portion; and  
operation keys;

wherein:

the display portion has EL elements;

the operation keys have liquid crystals;

the first panel and the second panel are connected;

the angle between the first panel and the second panel can be arbitrarily changed;

the direction of an image displayed by the liquid crystals is switchable in accordance with the angle between the first panel and the second panel; and

the direction of an image displayed by the EL elements and that of the image displayed by liquid crystals are the same at all times.

27. (Withdrawn) An electronic device functioning as a telephone, comprising:

a first panel having: one of an audio input portion and an audio output portion; and a display portion;

a second panel having: one of an audio input portion and an audio output portion; and operation keys; and

a means of recognizing an angle between the first panel and the second panel,

wherein:

the display portion has EL elements;

the operation keys have LEDs;

the first panel and the second panel are connected;

the angle between the first panel and the second panel can be arbitrarily changed;

the direction of an image displayed by the LEDs is switchable in accordance with the angle between the first panel and the second panel.

28. (Withdrawn) An electronic device functioning as a telephone, comprising:

a first panel having: one of an audio input portion and an audio output portion; and a display portion;

a second panel having: one of an audio input portion and an audio output portion; and operation keys; and

a means of recognizing an angle between the first panel and the second panel, wherein:

the display portion has EL elements;

the operation keys have LEDs;

the first panel and the second panel are connected;

the angle between the first panel and the second panel can be arbitrarily changed;

the direction of an image displayed by the LEDs is switchable in accordance with the angle between the first panel and the second panel; and

the direction of an image displayed by the EL elements and that of the image displayed by LEDs are the same at all times.

29. (Withdrawn) An electronic device functioning as a telephone, comprising:

a first panel having: one of an audio input portion and an audio output portion; and a display portion;

a second panel having: one of an audio input portion and an audio output portion; and operation keys; and

a means of recognizing an angle between the first panel and the second panel, wherein:

the display portion has EL elements;

the operation keys have liquid crystals;

the first panel and the second panel are connected;

the angle between the first panel and the second panel can be arbitrarily changed;

the direction of an image displayed by the liquid crystals is switchable in accordance with the angle between the first panel and the second panel.

30. (Withdrawn) An electronic device functioning as a telephone, comprising:  
a first panel having: one of an audio input portion and an audio output portion; and a display portion;  
a second panel having: one of an audio input portion and an audio output portion; and operation keys; and  
a means of recognizing an angle between the first panel and the second panel,  
wherein:  
the display portion has EL elements;  
the operation keys have liquid crystals;  
the first panel and the second panel are connected;  
the angle between the first panel and the second panel can be arbitrarily changed;  
the direction of an image displayed by the liquid crystals is switchable in accordance with the angle between the first panel and the second panel; and  
the direction of an image displayed by the EL elements and that of the image displayed by liquid crystals are the same at all times.

31. (Withdrawn) An electronic device according to claim 2, wherein:  
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

32. (Withdrawn) An electronic device according to claim 3, wherein:  
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

33. (Withdrawn) An electronic device according to claim 4, wherein:  
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

34. (Withdrawn) An electronic device according to claim 5, wherein:  
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

35. (Withdrawn) An electronic device according to claim 6, wherein:  
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

36. (Withdrawn) An electronic device according to claim 7, wherein:  
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

37. (Withdrawn) An electronic device according to claim 8, wherein:  
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

38. (Withdrawn) An electronic device according to claim 9, wherein:  
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

39. (Withdrawn) An electronic device according to claim 2, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.

40. (Withdrawn) An electronic device according to claim 3, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.

41. (Withdrawn) An electronic device according to claim 4, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.

42. (Withdrawn) An electronic device according to claim 5, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.

43. (Withdrawn) An electronic device according to claim 6, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.

44. (Withdrawn) An electronic device according to claim 7, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.

45. (Withdrawn) An electronic device according to claim 8, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.

46. (Withdrawn) An electronic device according to claim 9, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.

47. (Withdrawn) An electronic device according to claim 10, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.

48. (Withdrawn) An electronic device according to claim 13, wherein;  
the first EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

49. (Withdrawn) An electronic device according to claim 14, wherein;  
the first EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

50. (Withdrawn) An electronic device according to claim 15, wherein;  
the first EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

51. (Withdrawn) An electronic device according to claim 13, wherein the strength of light emitted by the first EL elements is equal to or greater than 251 m/W.

52. (Withdrawn) An electronic device according to claim 14, wherein the strength of light emitted by the first EL elements is equal to or greater than 251 m/W.

53. (Withdrawn) An electronic device according to claim 15, wherein the strength of light emitted by the first EL elements is equal to or greater than 251 m/W.

54. (Withdrawn) An electronic device according to claim 16, wherein the strength of light emitted by the first EL elements is equal to or greater than 251 m/W.

55. (Withdrawn) An electronic device according to claim 13, wherein:  
the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

56. (Withdrawn) An electronic device according to claim 14, wherein:  
the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

57. (Withdrawn) An electronic device according to claim 15, wherein:  
the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

58. (Withdrawn) An electronic device according to claim 16, wherein:  
the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.

59. (Withdrawn) An electronic device according to claim 17, wherein:  
the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and  
the external quantum efficiency of the EL layer is equal to or greater than 10%.



60. (Withdrawn) An electronic device according to claim 13, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.

61. (Withdrawn) An electronic device according to claim 14, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.

62. (Withdrawn) An electronic device according to claim 15, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.

63. (Withdrawn) An electronic device according to claim 16, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.

64. (Withdrawn) An electronic device according to claim 17, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.

65. (Withdrawn) An electronic device according to claim 18, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.

66. (Withdrawn) An electronic device according to claim 2, wherein the electronic device has a CCD light receiving portion.

67. (Withdrawn) An electronic device according to claim 3, wherein the electronic device has a CCD light receiving portion.

68. (Withdrawn) An electronic device according to claim 4, wherein the electronic device has a CCD light receiving portion.

69. (Withdrawn) An electronic device according to claim 5, wherein the electronic device has a CCD light receiving portion.

70. (Withdrawn) An electronic device according to claim 6, wherein the electronic device has a CCD light receiving portion.

71. (Withdrawn) An electronic device according to claim 7, wherein the electronic device has a CCD light receiving portion.

72. (Withdrawn) An electronic device according to claim 8, wherein the electronic device has a CCD light receiving portion.

73. (Withdrawn) An electronic device according to claim 9, wherein the electronic device has a CCD light receiving portion.

74. (Withdrawn) An electronic device according to claim 10, wherein the electronic device has a CCD light receiving portion.

75. (Withdrawn) An electronic device according to claim 11, wherein the electronic device has a CCD light receiving portion.

76. (Withdrawn) An electronic device according to claim 12, wherein the electronic device has a CCD light receiving portion.

77. (Withdrawn) An electronic device according to claim 13, wherein the electronic device has a CCD light receiving portion.

78. (Withdrawn) An electronic device according to claim 14, wherein the electronic device has a CCD light receiving portion.

79. (Withdrawn) An electronic device according to claim 15, wherein the electronic device has a CCD light receiving portion.

80. (Withdrawn) An electronic device according to claim 16, wherein the electronic device has a CCD light receiving portion.

81. (Withdrawn) An electronic device according to claim 17, wherein the electronic device has a CCD light receiving portion.

82. (Withdrawn) An electronic device according to claim 18, wherein the electronic device has a CCD light receiving portion.

83. (Withdrawn) An electronic device according to claim 19, wherein the electronic device has a CCD light receiving portion.

84. (Withdrawn) An electronic device according to claim 2, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

85. (Withdrawn) An electronic device according to claim 3, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

86. (Withdrawn) An electronic device according to claim 4, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

87. (Withdrawn) An electronic device according to claim 5, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

88. (Withdrawn) An electronic device according to claim 6, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

89. (Withdrawn) An electronic device according to claim 7, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

90. (Withdrawn) An electronic device according to claim 8, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

91. (Withdrawn) An electronic device according to claim 9, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

92. (Withdrawn) An electronic device according to claim 10, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

93. (Withdrawn) An electronic device according to claim 11, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

94. (Withdrawn) An electronic device according to claim 12, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

95. (Withdrawn) An electronic device according to claim 13, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

96. (Withdrawn) An electronic device according to claim 14, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

97. (Withdrawn) An electronic device according to claim 15, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

98. (Withdrawn) An electronic device according to claim 16, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

99. (Withdrawn) An electronic device according to claim 17, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

100. (Withdrawn) An electronic device according to claim 18, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

101. (Withdrawn) An electronic device according to claim 19, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

102. (Withdrawn) An electronic device according to claim 20, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

103. (Withdrawn) An electronic device according to claim 21, wherein:  
the display portion has a touch panel; and  
an image written into the touch panel is read in as electronic data.

104. (Withdrawn) An electronic device functioning as a telephone, comprising: a display portion; an audio input portion; an audio output portion; and operation keys;  
wherein at least one of the operation keys displays an image and a direction of the image displayed by the operation key is switchable between a first orientation and a second orientation.